INDEX

*Denotes an illustrated article

†Denotes an abstract from a foreign publication

§Denotes an editorial note

A

Aare River as a Source of Energy †239
Adam Beck-Niagara No. 2 ... §206
Adam Beck-Niagara No. 2—Hearn *246
Africa—
  Algeria, Upper Oued Djen Djen Project—Cordelle and Durand *46
  Kariba Contracts ... ... §324
  Kariba, Further Contracts awarded ... ... §405
  Kariba, Loan for ... ... §284
  Kariba Workers, New Town for ... ... §125
  Tunisia, Ben Métir Dam—Stucky *339, *377
  Uganda Electricity Board Report ... ... §165
  Uganda, Electricity for Mityana ... ... §206
  Uganda, More Power from Victoria Nile ... ... §126
  Uganda, Rural, Electricity in §2
  Volta River Project ... *366
Agout Development. *113
Air Survey, Persian ... ... §44
Alden Hydraulic Laboratory ... 80
Algeria, *see* Africa
Alternators, *see* Generators *under* Electrical Plant and Equipment
Aluminium Expansion in India §125
Aluminium Foil, Reinforced-Concrete Pressure Pipelines made Impervious with ... ... †42
Aluminium Limited Hydro Projects ... ... §205
America, United States of, *see* United States of America
Anchicaya Power Development—Ospina *100
Artificial Rain, *see* Hydrology
ASME Cavitation Seminar ... §85
Aswan Dam Finance ... ... §124
Aswan Dam Technical Conference ... ... §165
Aswan High Dam ... ... §446
Aswan, Oerlikon Alternator for †40
Atlas Diesel changes its Name 29
Atomic Power Conference, British ... ... §3
Aura Development, Norway *327, *389

Australia—
  Eildon Alternators *157
  Eildon Butterfly Valves ... *278
  Grid, Australian ... ... §446
  Guthega Project, Snowy Mountains *447
  Hume Weir Station ... ... §406
  Kiewa No. 4 Station Excavation ... ... †120
  Kiewa Pressure Shaft, Excavating ... ... †361
  Nymboida River District Scheme ... ... §164
  Remote-Control Plant on Warragamba ... ... §365
  Snowy Mountains, M.V. Switchgear for 436
  Snowy Mountains Scheme ... 220
  Transmission, High-Voltage, in Victoria ... ... §205
  Trevallyn Tunnel, Tasmania, Driving the ... ... †280
  Victoria, Progress in ... ... §165
Austria—
  Glockner-Kaprun Progress ... §85
  Limberg Storage Pumps—Pfenninger *356
  Ybbs-Persenbeug Plant—Königshofer *207
Automatic Stations, *see* Control of Hydro-Electric Systems

B

Bailey Bridging Equipment, Improved *481
B.C. Electric, *see* Canada
BEAMA Dinner 79
Beaumont Development Progress §445
Beck-Niagara No. 2, Sir Adam §206
Beck-Niagara No. 2, Sir Adam—Hearn *246
Belgium, Turbine Manufacture in 156
Belgium, Water Power in ... †122
Ben Métir Dam—Stucky *339, *377
Benmore Scheme, South Island, New Zealand ... ... §445
Bersimis, French Order for §45, §85
Bersimis Power Tunnel, lining the ... ... †362
Birsfelden Power Station Inaugurated ... ... §45
Blasting, *see* Drilling and Blasting
Blenio Valley Development ... §165
Borehole Drilling, Turbine for ... *236
Brazil—
  Hydro-Electric Developments in Brazil ... ... †42
  Ituting, Capacity to be Doubled ... ... §445
  Peixoto Composite Dam ... †482
  Salto Grande *417, *468
  Sao Paulo, Power in ... §45
Breadalbane, High-Speed Tunnelling at *8
British Aid for Indian Heavy Electrical Industry ... ... §2
British Alternator Order for Alcan ... ... §45
British Bulldozer on Finnish Scheme *119
British Columbia, *see* Canada
British Delegation's Russian Visit *467
British Generators for Bhakra Dam ... ... §85
British Guiana Proposal ... §406
British Nuclear Energy Conference ... ... §3
British Transformer Contract for Dalles Dam, U.S.A. ... ... §45
British Transformer Orders for Wilson Dam, U.S.A. ... §2
Brownlee Dam Model ... ... §324
Bulgaria, Stalin Dam Completed ... ... §365
Bulgaria, Water Power in ... †241
Bulldozer, *see* Contractors' Equipment
Butterfly Valves for Eildon, Australia *278

C

Cables, Electrical, *see* Electrical Plant and Equipment
California Water Plan ... ... †400
Campbell River Dam ... ... †122

Canada—
  Alcan Alternator, British Repeat Order ... ... §45
  B.C. Electric Expansion ... §44
  B.C. Power Corporation Report ... ... §166
  B.C. Power Crossing from Cheekeye to Powell River ... *38
  B.C. Power Subsidiary ... §124
  Beaumont Development Progress ... ... §445
  Bersimis, French Order for §45, §85
  Bersimis Power Tunnel, lining the ... ... †362
  Cable, Underwater, for Vancouver Island ... *234, *437
  Cable Order, $2 million, for B.C. Electric, Vancouver ... 99
  Campbell River Dam ... †122
  Cheakamus Contract Awarded §204
  Clowhom to be Rebuilt ... §285
  Hamilton River Survey ... §325
  Hydro-Electric Progress in Canada *103
  Kaplan Turbine in Canada ... †442
  Kemano-Kitimat Transmission-line Suspension ... †441
  Kitimat, Tunnel Obstruction at ? ... ... §284
  Niagara, Completing the Harnessing of ... ... †121
  Niagara Hydraulic Models ... †242
  Niagara, Sir Adam Beck No. 2 §206
  Niagara, Sir Adam Beck No. 2—Hearn *246
  Kemano Penstock, Plotting by Pantograph ... ... †282
  Peribonka Scheme, Upper, to Proceed ... ... §405
  Quebec Hydro-Electric Commission 149
  Rapide Sans Nom Station §205, §326
  Shawinigan Annual Report ... §164
  Vancouver, Combining Hydro and Thermal Programme for §245
  Water-Power Resources of Canada 193
Caroni Scheme, Venezuela §2, §85
Castet Power Units ... ... †40
Cathodic Protection Tests ... †281
Catchment Areas, *see* Hydrology, Regulation and Storage
Cauca Valley Development, Columbia ... ... §124
Cement, *see* Concrete
Ceylon Hydro-Electric Scheme *346
Chandler Power and Pumping Plant *68
Channels—
  Course of an Open Channel, Determining the ... ... †322
  Cutting a large Relief Channel *78
  Niagara, Sir Adam Beck No. 2—Hearn *250
Cheakamus Contract Awarded §204
China, Hydro-Electric Prospects in ... ... †442
CIGRE Conference ... 255, 293
Circuit Breakers, *see* Electrical Plant and Equipment
Civil Engineers' Conversazione, Institution of 292
Clowhom to be Rebuilt ... §285

INDEX

*Denotes an illustrated article

†Denotes an abstract from a foreign publication

§Denotes an editorial note

A

Aare River as a Source of Energy †239
Adam Beck-Niagara No. 2 ... §206
Adam Beck-Niagara No. 2—Hearn *246
Africa—
  Algeria, Upper Oued Djen Djen Project—Cordelle and Durand *46
  Kariba Contracts ... ... §324
  Kariba, Further Contracts awarded ... ... §405
  Kariba, Loan for ... ... §284
  Kariba Workers, New Town for ... ... §125
  Tunisia, Ben Métir Dam—Stucky *339, *377
  Uganda Electricity Board Report ... ... §165
  Uganda, Electricity for Mityana ... ... §206
  Uganda, More Power from Victoria Nile ... ... §126
  Uganda, Rural, Electricity in §2
  Volta River Project ... *366
Agout Development. *113
Air Survey, Persian ... ... §44
Alden Hydraulic Laboratory ... 80
Algeria, *see* Africa
Alternators, *see* Generators *under* Electrical Plant and Equipment
Aluminium Expansion in India §125
Aluminium Foil, Reinforced-Concrete Pressure Pipelines made Impervious with ... ... †42
Aluminium Limited Hydro Projects ... ... §205
America, United States of, *see* United States of America
Anchicaya Power Development—Ospina *100
Artificial Rain, *see* Hydrology
ASME Cavitation Seminar ... §85
Aswan Dam Finance ... ... §124
Aswan Dam Technical Conference ... ... §165
Aswan High Dam ... ... §446
Aswan, Oerlikon Alternator for †40
Atlas Diesel changes its Name 29
Atomic Power Conference, British ... ... §3
Aura Development, Norway *327, *389

Australia—
  Eildon Alternators *157
  Eildon Butterfly Valves ... *278
  Grid, Australian ... ... §446
  Guthega Project, Snowy Mountains *447
  Hume Weir Station ... ... §406
  Kiewa No. 4 Station Excavation ... ... †120
  Kiewa Pressure Shaft, Excavating ... ... †361
  Nymboida River District Scheme ... ... §164
  Remote-Control Plant on Warragamba ... ... §365
  Snowy Mountains, M.V. Switchgear for 436
  Snowy Mountains Scheme ... 220
  Transmission, High-Voltage, in Victoria ... ... §205
  Trevallyn Tunnel, Tasmania, Driving the ... ... †280
  Victoria, Progress in ... ... §165
Austria—
  Glockner-Kaprun Progress ... §85
  Limberg Storage Pumps—Pfenninger *356
  Ybbs-Persenbeug Plant—Königshofer *207
Automatic Stations, *see* Control of Hydro-Electric Systems

B

Bailey Bridging Equipment, Improved *481
B.C. Electric, *see* Canada
BEAMA Dinner 79
Beaumont Development Progress §445
Beck-Niagara No. 2, Sir Adam §206
Beck-Niagara No. 2, Sir Adam—Hearn *246
Belgium, Turbine Manufacture in 156
Belgium, Water Power in ... †122
Ben Métir Dam—Stucky *339, *377
Benmore Scheme, South Island, New Zealand ... ... §445
Bersimis, French Order for §45, §85
Bersimis Power Tunnel, lining the ... ... †362
Birsfelden Power Station Inaugurated ... ... §45
Blasting, *see* Drilling and Blasting
Blenio Valley Development ... §165
Borehole Drilling, Turbine for ... *236
Brazil—
  Hydro-Electric Developments in Brazil ... ... †42
  Ituting, Capacity to be Doubled ... ... §445
  Peixoto Composite Dam ... †482
  Salto Grande *417, *468
  Sao Paulo, Power in ... §45
Breadalbane, High-Speed Tunnelling at *8
British Aid for Indian Heavy Electrical Industry ... ... §2
British Alternator Order for Alcan ... ... §45
British Bulldozer on Finnish Scheme *119
British Columbia, *see* Canada
British Delegation's Russian Visit *467
British Generators for Bhakra Dam ... ... §85
British Guiana Proposal ... §406
British Nuclear Energy Conference ... ... §3
British Transformer Contract for Dalles Dam, U.S.A. ... ... §45
British Transformer Orders for Wilson Dam, U.S.A. ... §2
Brownlee Dam Model ... ... §324
Bulgaria, Stalin Dam Completed ... ... §365
Bulgaria, Water Power in ... †241
Bulldozer, *see* Contractors' Equipment
Butterfly Valves for Eildon, Australia *278

C

Cables, Electrical, *see* Electrical Plant and Equipment
California Water Plan ... ... †400
Campbell River Dam ... ... †122

Canada—
  Alcan Alternator, British Repeat Order ... ... §45
  B.C. Electric Expansion ... §44
  B.C. Power Corporation Report ... ... §166
  B.C. Power Crossing from Cheekeye to Powell River ... *38
  B.C. Power Subsidiary ... §124
  Beaumont Development Progress ... ... §445
  Bersimis, French Order for §45, §85
  Bersimis Power Tunnel, lining the ... ... †362
  Cable, Underwater, for Vancouver Island ... *234, *437
  Cable Order, $2 million, for B.C. Electric, Vancouver ... 99
  Campbell River Dam ... †122
  Cheakamus Contract Awarded §204
  Clowhom to be Rebuilt ... §285
  Hamilton River Survey ... §325
  Hydro-Electric Progress in Canada *103
  Kaplan Turbine in Canada ... †442
  Kemano-Kitimat Transmission-line Suspension ... †441
  Kitimat, Tunnel Obstruction at ? ... ... §284
  Niagara, Completing the Harnessing of ... ... †121
  Niagara Hydraulic Models ... †242
  Niagara, Sir Adam Beck No. 2 §206
  Niagara, Sir Adam Beck No. 2—Hearn *246
  Kemano Penstock, Plotting by Pantograph ... ... †282
  Peribonka Scheme, Upper, to Proceed ... ... §405
  Quebec Hydro-Electric Commission 149
  Rapide Sans Nom Station §205, §326
  Shawinigan Annual Report ... §164
  Vancouver, Combining Hydro and Thermal Programme for §245
  Water-Power Resources of Canada 193
Caroni Scheme, Venezuela §2, §85
Castet Power Units ... ... †40
Cathodic Protection Tests ... †281
Catchment Areas, *see* Hydrology, Regulation and Storage
Cauca Valley Development, Columbia ... ... §124
Cement, *see* Concrete
Ceylon Hydro-Electric Scheme *346
Chandler Power and Pumping Plant *68
Channels—
  Course of an Open Channel, Determining the ... ... †322
  Cutting a large Relief Channel *78
  Niagara, Sir Adam Beck No. 2—Hearn *250
Cheakamus Contract Awarded §204
China, Hydro-Electric Prospects in ... ... †442
CIGRE Conference ... 255, 293
Circuit Breakers, *see* Electrical Plant and Equipment
Civil Engineers' Conversazione, Institution of 292
Clowhom to be Rebuilt ... §285

Colombia—
Anchicaya Power Development—Ospina *100
Cauca Valley Development ... §124
Colorado, Upper, Development §245
Columbia River Developments †41
Combined Hydro and Thermal Developments, *see* Resources and Development
Compressors, *see* Contractors' Equipment
Computing Service, English Electric *196
Concrete—
Accelerated Test for Concrete *191
Concrete Placer, Blaw Knox *198
Klinger System of Handling Cement *439
Vacuum Concrete Process ... *463
see also Contractors' Equipment, Dams *and* Tunnels
Conferences—
ASME Cavitation Seminar ... §85
Aswan Dam Technical Conference ... ... §165
CIGRE Conference ... 255, 293
Dijon Hydrology Conference 455
Nuclear Energy Conference, British ... ... §3
Power from the Sea Conference, Paris ... §164, *428, *457
World Power Conference, Vienna §84, §164, §244, 335, 383
Contractors' Equipment—
Bulldozer, Fowler Challenger, on Finnish Scheme ... *119
Compressor, Portable, Atlas Copco *118
Concrete Plant, Moving Bodily †441
Crawler, International Harvester *279
Grader Attachment, Elevating, Blaw Knox Super 12 ... *77
Rollers, Compaction, Onions *197
Scraper, Allis-Chalmers TS-360 *478
Tractors, Vickers, new Names for 481
Scrapers, Allis-Chalmers, Cutting Large Relief Channel *78
Tracto-Shovel, Allis-Chalmers *160
Tractor, Fiat 55LI *78
see also Concrete, Dams, Drilling and Blasting *and* Tunnels.
Contractors', French, Record Achievements ... ... §244
Control of Hydro-Electric Systems—
Australia, Remote-Control Plant on Warragamba ... §365
Russian Automatic Stations, British Delegation's comments on *467
Salto Grande Operating Scheme 472
Vinstra Control Room, Norway *153
Cook Strait Cable §84, §125, §245, §444
Crawlers, *see* Contractors' Equipment
Cuba's Hanabanilla Scheme ... †401
Currency Facilities for European Power Exchanges ... ... §444

D

Dalles Project Progress ... †441
Dams—
Arch Dams, Analysis of Dokan Dam 80, 83
Arch Dams, Symposium on ... 114
Aswan Dam Finance ... §124
Aswan Dam Technical Conference 165
Aura Development Dams, Norway *330
Ben Métir Dam—Stucky *339, *377
Brownlee Dam Model ... §324
Bursting of a Dam, Non-Uniform Flow Resulting from †161
Campbell River Dam ... †122
Castlereagh Dam, Ceylon ... *347
Cofferdam on Ice Foundation †202
Dam-Building Techniques, Newer 443
Delaware, Dams on ... ... †240
Dokan Dam Analysis 80, 83
Earth and Rockfill Dams ... †400
Earth-Dam Control ... ... †361
Earth-Dam Design and Construction ... ... †482
Earth-Dams, Investigating Piping in ... ... †360
Earth-Dams, Measuring Pore Pressure in ... ... †201
Erraguène Dam, Upper Oued Djen Djen, Algeria — Cordelle and Durand *46
Gage, La Palisse and La Veyradère Dams, Montpezat Scheme, France *226
Guthega Dam, Australia ... *448
Loch Quoich Dam, Vacuum Concrete Process in Construction of *463
Miguel Hidalgo Dam, Mexico §285
Oahe Dam, Landslide at ... †482
Oahe Dam, Presoaked Fill for †162
Olstappen Dam, Vinstra, Norway *88
Peixoto Composite Dam, Brazil †482
Pieve di Cadore Dam ... †281
Pleasant Valley Dam Model Studies ... ... †240
Rejuvenating Old Concrete Dams ... ... †242
Rio Grande Dam ... ... §164
Roxburgh Dam Site, Sealing †361
Russian Dams, British Delegation's Comments on ... *467
Santa Felicia Dam, California †82
Seepage, Dam, Investigating ... †81
Seyhan Dam, Turkey ... *30
Spillway, Concrete-Faced, Washed Away ... ... †322
Stalin Dam, Bulgaria, Completed ... ... §365
Tralaig Dam, Kilmelfort Scheme, Scotland *287
Unconventional in Modern Dams—Sarkaria ... *143, 245
Val Gallina Dam ... †81, †484
Valli di Cadore Dam ... †40
Wadi Tharthar Barrage Inaugurated ... ... §165
see also Concrete *and* Silt
Damodar Valley Corporation ... †201
Deep Cove Scheme, New Zealand §446
Development of Power Resources, *see* Resources and Development
Dijon Hydrology Conference ... 455
Dissipators, *see* Gates, Sluices and Valves
Djen Djen Project, Algeria—Cordelle and Durand *46
Dokan Dam Analysis ... 80, 83
Drilling and Blasting—
Atlas-Copco Drilling Developments *158
Cobra Motor Drill *480
Harrsele, Tunnel Blasting at—Ahlström *407
Turbine for Borehole Drilling *236
see also Tunnels

E

Egypt—
Aswan Dam Finance ... §124
Aswan Dam Technical Conference ... ... §165
Aswan High Dam ... ... §446
Aswan, Oerlikon Alternator for †40
Electrical Plant and Equipment—
Aura Electrical System, Norway *394
Australian Grid ... ... §446
Auto-Transformer for Super-Grid Interconnection ... †201
Cable, Cook Strait §84, §125, §245
Cable Manufacture, Super-Tension *116
Cable Order, $2 million, for B.C. Electric, Vancouver 99
Cable, Surface-laying a ... §205
Cable, Underwater, for Vancouver Island ... *234, *437
Channel Cable to be laid ... §406
CIGRE Conference ... 255, 293
Circuit Breaker, ASEA Auto-Pneumatic 359
Europe, Heavy Power Equipment in ... ... §364
Generator, British Repeat Order for Alcan ... ... §45
Generator, Induction, Mullardoch 117
Generator, Induction, The Water-Turbine-Driven—Stride and Rozycki ... *127
Generator, Oerlikon, for Aswan ... ... †40
Generators for Bhakra Dam §85
Generators for Eildon, Australia *157
Indian Heavy Electrical Industry, British Aid for ... §2
Insulators, Toughened-Glass, Testing *476
Isolators, Extra-High-Voltage ... ... †320
Mettlen Substation ... ... †40
Montpezat Electrical Equipment, France *169
Snowy Mountains, M.V. Switchgear for 436
Storfinnforsen Electrical Equipment, Sweden ... *308
Testing Plant, Oerlikon ... †42
Transformer Contract, British, for Dalles Dam, U.S.A. ... §45
Transformer Orders, British, for Wilson Dam, U.S.A. ... §2
Transformer Production, Process Oven at Hackbridge Works *479
Transformer Tests, Super-Grid *359
Transformers, Large ... ... †483
Transmission Costs 403
Transmision, High-Voltage, in Victoria, Australia ... §205
Transmission Line, Ala-Roma, 220 kV ... ... †201
Transmission-line Construction, Speeding up ... ... †401
Transmission-line Crossing from Cheekeye to Powell River, British Columbia ... *38
Transmission-line Equipment, Kemano-Kitimat ... ... †441
Transmission-line Research 43, §166
Transmission-line, St. Gotthard, Towers for ... ... †482
Transmission Line, Salto Grande, Brazil *471
Transmission Line, Record Span Across Norwegian Fiord ... ... †360
Transmission-line stringing by Helicopter ... ... †402

Transmission Line, Vinstra-Oslo *155
Transmission System, Ceylon *350
Vinstra Electrical Equipment, Norway *151
see also Control of Hydro-Electric Equipment
Electricity Supply—
B.C. Power Corporation Report ... ... §166
Franco-Swiss Power Exchanges §166
Italy, Water Power in ... §445
Mexican Power Expansion ... §166
Shawinigan Annual Report ... §164
Swiss Electricity Production ... †240
Uganda Electricity Board Report ... ... §165
Uganda, Electricity for Mityana ... ... §206
Uganda, Rural, Electricity in §2
Victoria, Australia, Progress in §165
see also Resources and Development
"Engineer" Centenary 80
Escher Wyss: 150 years of Development 16
Europe—
Currency Facilities for European Power Exchanges ... §444
Energy Prospects, Europe's ... 243
Heavy Power Equipment in Europe ... ... §364
Power Exchanges, European §126
Evaporation from Lakes and Reservoirs—N. J. Cochrane 192, 326

F

Feather River Project ... ... †241
Finance, Hydro-Electric ... 123
Finland—
Bulldozer, Fowler Challenger, on Finnish Scheme ... *119
Development of Water-Power Resources in the North of Finland—Veijola *295
Oulu River Development ... †202
Fish and Fish Passes—
Delta-Mendota Fish-Collecting Installation *276
Hydro Power and Fish ... §3
Mayfield Dam, Fish-Handling Facilities at ... ... †321
Pelton Dam, Fish Protection at †482
Salmon Ladder, World's Longest ... ... §285
Flow through Penstocks, Calculating—Andersson ... *373
Flow through Turbines, Calculating—Andersson ... *216, *269
Foundation, Raft ... ... †282
France—
Agout Development ... *113
Castet Power Units ... †40
Contractors', French, Record Achievements ... ... §244
Isère-Arc Intake Works ... †482
Montpezat Scheme—Storey *167, *226
Power Exchanges, Franco-Swiss ... ... §166
Power from the Sea Conference ... §164, *428, *457
Viaur-Tarn Development ... †39
Francis Turbines, *see* Turbines

G

Gates, Sluices and Valves—
Dissipator, Double-Jet ... †284
Dissipator, Kreuter ... ... †400
Regulating Valves and Energy Dissipators ... ... †201
Eildon, Australia, Butterfly Valves for *278
Sluice Gates, High-Head—Haase *55
Generators, *see* Electrical Plant and Equipment
Germany—
Birsfelden Power Station Inaugurated ... ... §45
Munich Museum, Water Power Machines at ... ... †162
Gilbert Gilkes and Gordon Centenary *315
Glen Shira Project 173
Glockner-Kaprun Progress ... §85
Göschenalp Development ... †39
Graders, *see* Contractors' Equipment
Grande Dixence Tunnel Pierced †321
Greece—
Electrification Programmes ... †483
Ladhon River Development †122
Ground Water in Water Power—Whetstone *424
Guiana, British, Proposal ... §406
Guthega Project *447

H

Hamilton River Survey ... ... §325
Hanabanilla Scheme, Cuba ... †401
Harland Expansion Programme *277
Harrsele, Tunnel Blasting at—Ahlström *407
Heating, Thermal-Storage for a Hydro Station ... ... †41
Helicopter, Line stringing by ... †402
Helicopter, River Soundings by—Holden *4
Hells Canyon Projects ... ... †242
Helmet, Safety, MSA Shockgard *37
Hume Weir Station, Australia §406
Hungary, Tiszalok in Operation §85
Hydraulics—
Cavitation Seminar, ASME §85
Evaporation from Lakes and Reservoirs—N. J. Cochrane 192, 326
Flow, Non-Uniform, Resulting from the Bursting of a Dam †161
Flow through Penstocks, Calculating—Andersson ... *373
Flow through Turbines, Calculating—Andersson *216, *269
Hydraulics Research Board Report 314
Hydrodynamic Stability, Course on 238
International Association for Hydraulic Research ... §244
Kilbride, East, Hydraulic Research at 323
Kilbride, East, Laboratory Model ... ... §204
Wallingford Hydraulics Research Station *474
Hydro and Thermal Development, Combined, *see* Resources and Development
Hydro-Electric Power Stations, *see* Power Stations
Hydro-Electric Resources, *see* Resources and Development
Hydrology, Regulation and Storage—
Ångerman Catchment, Sweden *265
Aura Catchment Area ... *329
Cloud Seeding Boosts Output †362
Dijon Hydrology Conference 455
Ground Water in Water Power—Whetstone *424
Helicopter, River Gauging by—Holden *4
Underground Storage Powers a Surface Plant. ... ... †360
Vinstra Catchment Area, Norway *88
see also Resources and Development

I

Ice Problem in Hydro Plants ... †400
Impulse Turbines, *see* Turbines
India—
Aluminium Expansion in India §125
Bhakra Dam, Generators for §85
British Aid for Indian Heavy Electrical Industry ... ... §2
Damodar Valley Corporation †201
Damodar Valley, Swedish Turbines for ... ... §45
Hydro Resources Estimated at 35 million kW ... ... §364
Hydro Topics, India ... ... †162
Khatima Station Opened ... §204
Kotla Power Station Inaugurated ... ... §285
Madras, Project for ... ... §325
Mangla Dam Project ... †320
Rihand Project Progress ... §405
Second Five-Year Plan ... §365
Induction Generators, *see* Electrical Plant and Equipment
Institution of Civil Engineers' Conversazione 292
Insulation, *see* Electrical Plant and Equipment
Intakes—
Isère-Arc Intake Works ... †482
Novel Type of River Intake †320
Stream-Bed Intakes ... †282
International Association for Hydraulic Research ... ... §244
International Power Exchanges, *see* Resources and Development
Invergarry Station Commissioned §126
Iraq, Wadi Tharthar Barrage Inaugurated ... ... §165
Irish Republic, Water Power in the ... ... §326
Isolators, *see* Electrical Plant and Equipment
Italy—
Consulting Service, Italian ... 338
Pieve di Cadore Dam ... †281
Val Gallina Dam ... †81, †484
Valle di Cadore Dam ... †40
Water Power in Italy ... §445

J

Japan's Hydro Programme ... §445
Japan's Sakuma Project ... ... †321
John Day Project ... ... †242

K

Kaplan Turbines, *see* Turbines
Kariba, *see* Africa
Kemijoki Development, Finland—Veijola *295
Kiewa No. 4 Station Excavation †120
Kiewa Pressure Shaft, Excavating †361
Kilbride, East, Hydraulic Research at 323
Kilbride, East, Laboratory Model ... ... §204
Kilmelfort *287
Kitimat, *see* Canada
Kotla Power Station Inaugurated §285
Krangede Power Company's New Plants, Sweden *264, *307

L

Laboratories, *see* Research
Landslide at Oahe Dam ... †482
Lawers Hydro-Electric Scheme *61
Lewis River Projects, U.S.A. †241
Liberia, Undeveloped Water Power in ... ... †322
Lienne Project ... ... †120
Limberg Storage Pumps—Pfenninger *356
Littleton Project ... ... †281
Lünersee Power Station ... †483

M

Madras, Project for ... ... §325
Mangla Dam Project ... ... †320
Mettlen Substation ... ... †40
Mexico—
  Finances, Power Development, Mexican ... ... §2
  Miguel Hidalgo Dam ... §285
  Rio Grande Dam ... ... §164
  Power Expansion Programme, Mexican ... ... §166
Models—
  Brownlee Dam Model ... §324
  Kilbride, East, Laboratory Model ... ... §204
  Model Tests ... ... †200
  Niagara Hydraulic Models ... †242
  Pleasant Valley Dam Model Studies ... ... †240
  St. Lawrence Research ... 16
Montpezat Scheme—Storey *167, *226
Munich Museum, Water-Power Machines at ... ... †162

N

New Zealand—
  Benmore Scheme, South Island §445
  Cook Strait Cable §84, §125, §245, §444
  Deep Cove Scheme ... ... §446
  Hydro Policy, New Zealand's §284
  Ohakuri, Progress at ... §325
  Prospects, New Zealand ... *29
  Roxburgh Dam Site, Sealing †361
  Roxburgh Ready End of August ... ... §166
  Tourists, Hydro Project for (Quinton Huts) ... ... §285
  Waikato Hydro Project ... §84
  Waikato, Problems of the ... 305
  Waipapa, Tenders for ... §45
Niagara, *see* Canada *and* United States of America
Norway—
  Aura Development ... *327, *389
  Otra River Scheme ... ... §45
  Russian - Norwegian Power Project ... ... §365
  Sognefjord, Record Span, Transmission-line Crossing †360
  Sweden, Norwegian Power for §44
  Tokke Scheme Approved ... §245
  Vinstra *86, *150
  Water-Power Expansion in Norway ... ... §446
Noxon Rapids Contract ... §245
Nuclear Energy Conference, British ... ... §3
Nymboida River District Scheme, New South Wales ... ... §164

O

Oahe Dam, Landslide at ... †482
Oahe Dam, Presoaked fill for ... †162
Ohakuri, Progress at, New Zealand ... ... §325
Otra River Scheme, Norway ... §45
Oulu River Development, Finland ... ... †202

P

Pacific Northwest 283
Pelton Wheels, *see* Turbines
Pakistan, Developments in ... §404
Passamaquoddy Tidal Project, *see* Tidal Power
Penstocks, Pipes and Pressure Shafts—
  Aluminium Foil, Reinforced-Concrete Pressure Pipelines made Impervious with ... †42
  Aura Penstocks, Norway ... *334
  Banded Pipes in Penstocks ... †402
  Flow through Penstocks, Calculating—Andersson ... *373
  Guthega Penstocks, Automatic *451
  Kemano Penstock, Plotting by Pantograph ... ... †282
  Kiewa Pressure Shaft, Excavating ... ... †361
  Lining a High-Pressure Shaft 268
  Quicker Design of Penstocks—Tults *303
  Stability, Penstock, Calculating †81
  Welding Stresses Crack Penstocks ... ... †240
  see also Tunnels
Peribonka Scheme, Upper, to Proceed ... ... §405
Persian Air Survey ... ... §44
Pieve di Cadore Dam ... ... †281
Pipes, *see* Penstocks, Pipes and Pressure Shafts
Piping in Hydraulics Structures †441
Pleasant Valley Dam Model Studies ... ... †240
Power Resources and Development, *see* Resources and Development
Power Stations—
  Aura Power Station, Norway *389
  Bersimis, French Order for, Turbines ... ... §45, §85
  Chandler Power and Pumping Plant—Goodman *68
  Clowhom to be Rebuilt ... §285
  Cooling-Water System, Jablanica ... ... †161
  Guthega Power Station, Australia *453
  Hume Weir Station, Australia §406
  Khatima Station, India, Opened ... ... §204
  Kotla Power Station, India, Inaugurated ... ... §285
  Laksapana Power Station, Ceylon *348
  Mansouria Power Station, Upper Oued Djen Djen, Algeria *53
  Melfort and Tralaig Power Stations, Kilmelfort Scheme, Scotland *287
  Montpezat Power Station—Storey *170
  Niagara, Sir Adam Beck No. 2 §206
  Niagara, Sir Adam Beck No. 2—Hearn *246
  Ramsele Power Station, Krångede Power Company, Sweden *309
  Rapide Sans Nom Station §205, §326
  Russian Power Stations, British Delegation's Comments on *467
  Salto Grande Power Station, Brazil *468
  Seyhan Power Station, Turkey *34
  Tiszalok to be Commissioned §85
  Storfinnforsen Power Station, Krångede Power Company, Sweden *264, *307
  Vinstra Power Station, Norway *90, *150
  Ybbs-Persenbeug Power Station, Austria—Königshofer *207
Power Supply, *see* Electricity supply
Power Resources and Development, *see* Resources and Development
Pressure Surges, *see* Water Hammer
Priests Rapids Contracts ... §404
Protection Tests, Cathodic ... †281
Pumps and Pumped Storage —
  Chandler Power and Pumping Plant—Goodman *68
  Limberg Storage Pumps—Pfenninger *356
  Niagara, Sir Adam Beck No. 2, Pumped-Storage Development *253
  Pressure Surges in Turbines and Pumps ... ... †442
  Pump-Turbine, World's Largest Reversible *237
  Pumped Storage ... ... †282
  Sealing Glands, New Principle in the Design of ... *115

Q

Quebec Hydro-Electric Commission 149
Quinton Huts Project, New Zealand ... ... §285

R

Radiography, Testing a Pelton Wheel by ... ... †281
Raft Foundation ... ... †282
Rain and Rainmaking, *see* Hydrology
Rapide Sans Nom Station §205, §326
Remote Control, *see* Control of Hydro-Electric Systems
Research—
  Admiralty Underwater Hydrodynamics Laboratory ... 37
  Alden Hydraulic Laboratory 80
  Hydraulics Research Board Report 314
  International Association for Hydraulic Research ... §244
  Kilbride, East, Hydraulic Research at 323
  Kilbride, East, Laboratory Model ... ... §204
  St. Lawrence Research ... 16
  Transmission-Line Research 43, §166
  Turbine Test Circuit, Morgan-Smith *397
  Wallingford Hydraulics Research Station *474
  see also Hydraulics *and* Models
Reservoirs, *see* Dams; Hydrology, Regulation and Storage *and* Silt
Resources and Development—
  Aare River as a Source of Energy ... ... †239
  Aluminium Limited Hydro Projects ... ... §205
  Brazil, Hydro-Electric Developments in ... ... †42
  Brazil, Power in Sao Paulo ... 845
  Bulgaria, Water Power in ... †241
  Canada, Hydro-Electric Progress in *103

Canada, Water-Power Resources of 193
China, Hydro-Electric Prospects in ... ... †442
Columbia River Developments †41
Combined Hydro and Thermal Development for Vancouver §245
European Power Exchanges §126
Europe's Energy Prospects ... 243
Expanding Potentials ... 363
Finland, North of, Development of Water-Power Resources in—Veijola ... *295
Franco-Swiss Power Exchanges §166
Greek Electrification Progress ... ... †483
Hamilton River Survey, Canada §325
Indian Second Five-Year Plan §365
India's Hydro Resources Estimated at 35 million kW ... §364
Irish Republic, Water Power in the ... ... §326
Italy, Water Power in ... §445
Japan's Hydro Programme ... §445
Liberia, Undeveloped Water Power in ... ... †322
Mexican Power Development Finances ... ... §2
New Zealand's Hydro Policy §284
Norwegian Power for Sweden §44
Norwegian - Russian Power Project ... ... §365
Norwegian Water Power Expansion ... ... §446
Oulu River Development, Finland ... ... †202
Outlook for Hydro Power ... 203
Pacific Northwest 283
Power Exchanges, European, Currency Facilities for ... §444
Quebec Hydro-Electric Commission 149
Russia, Utilisation of Power Resources in ... ... †402
Russian Development Plans ... §125
Scotland, North of, Hydro-Electric Board Report ... 142
Washington State Power System, Combined Hydro and Thermal Studies ... ... §126
Uganda, More Power from Victoria Nile ... ... §126
Yugoslavia to Export Electrical Energy ... ... §444
see also Electricity Supply *and* Tidal Power
Rihand Project Progress, India §405
Rio Grande Dam ... ... §164
River Bed, Paving a ... ... †360
River Gauging, *see* Hydrology, Regulation and Storage
Roanoke Rapids Development †321
Rollers, Compaction, *see* Contractors' Equipment
Roxburgh Dam Site, Sealing ... †361
Roxburgh Ready End of August §166
Russia—
British Hydro-Electric Engineers visit Russia ... §405, *467
Development Plans, Russian §125
Norwegian-Russian Power Project ... ... §365
Turbines, Soviet ... ... †362
Utilisation of Power Resources †402

S

St. Lawrence Seaway—
Plugging the St. Lawrence ... †280
Research with St. Lawrence Models 16
St. Lawrence Seaway and Power Project—H. G. Cochrane *134, *184
Sakuma Project ... ... †321
Salmon, *see* Fish and Fish Passes
Salto Grande, Brazil ... *417, *468
Santa Felicia Dam, California ... †82
Sarda Canal Station Opened, India ... ... §204
Scotland—
Breadalbane, High Speed Tunnelling at *8
Cable, Surface-Laying a ... §205
Glen Shira Project 173
Invergarry Station Commissioned ... ... §126
Killin Tunnel, Steel Shutter for *479
Kilmelfort *287
Lawers Hydro-Electric Scheme *61
North of Scotland Hydro-Electric Board Report ... 142
Progress in 1955 80
Scrapers, *see* Contractors' Equipment
Sediment, *see* Silt
Seyhan Project, Turkey ... *30
Shafts, Pressure, *see* Penstocks, Pipes and Pressure Shafts
Shafts, Surge, *see* Surge Chambers
Shawinigan Water and Power Company, *see* Canada
Shovels, *see* Contractors' Equipment
Silt—
Reservoirs, New Methods of Sediment Control in—Duquennois *174
Reservoirs, Silting of 163
Siphon Design ... ... †81
Sluices, *see* Gates, Sluices and Valves
Snake River Development ... †239
Snowy Mountains Scheme, *see* Australia
Solar Energy ... ... †239
Solar Energy and Water Power 1
Spillways, *see* Dams
Stilling Basin Design ... ... †161
Storage, *see* Hydrology, Regulation and Storage
Storfinnforsen Development of the Krångede Power Company, Sweden *264, *307
Substations, *see* Electrical Plant and Equipment
Supervisory Control, *see* Control of Hydro-Electric Systems
Surge Chambers—
Differential Surge-Tank Installation, Experimental and Analytical Investigation of—Gibson and Shelson *62, *94, 156
Guthega Surge Tank *449
Surge Tank Stability 79
Surge-Tank Studies ... ... †82
Surinam Project ... ... §85
Sweden—
Developments in Sweden ... §404
Harrsele, Tunnel Blasting at—Ahlström *407
India, Damodar Valley, Swedish Turbines for ... ... §45
Krångede Power Company's New Plants *264, *307
Norwegian Power for Sweden §44
Oster Dal Development ... †442
Storfinnforsen Development of the Krångede Power Company *264, *307
Tunnel, World Record, Swedes Claim ... ... §44
Tunnelling in Sweden ... ... †161
Swift Creek Plants, Turbines for §406
Switzerland—
Aare River as a Source of Energy ... ... †239
Birsfelden Power Station Inaugurated ... ... §45
Blenio Valley Development ... §165
Electricity Production, Swiss ... †240
Engadin Valley Development §85
Göschenalp Development ... †39
Grande Dixence Tunnel Pierced ... ... †321
Lienne Project ... ... †120
Mettlen Substation ... ... †40
Power Exchanges, Franco-Swiss ... ... §166
Rhine Headwater Development, Company formed for §166
Val Bregaglia Development ... †239
Valais Development ... ... †81
Vorder Rhein Development ... †484

T

Tanks, Surge, *see* Surge Chambers
Tasmania, *see* Australia
Thermal and Hydro Development, Combined, *see* Resources and Development
Tidal Power—
Castet Power Units ... ... †40
Conference on Power from the Sea ... §164, *428, *457
New Approach to Tidal Power—Thomas *181
Passamaquoddy Tidal Project §125
Rance Tidal Plant ... ... †402
Tidal Plants ... ... †82
Tidal Power—Wickert *221, *259
Tiszalok in Operation ... ... §85
Tokke Scheme Approved ... §245
Tothill Press New Offices ... 3
Tourists, Hydro Project for (Quinton Huts, New Zealand) §285
Tractors, *see* Contractors' Equipment
Transformers, *see* Electrical Plant and Equipment
Transmission, *see* Electrical Plant and Equipment
Trevallyn Tunnel, Driving the †280
Tunisia, *see* Africa
Tunnels—
Aura Supply Tunnel, Norway *332
Bersimis Power Tunnel, Lining the ... ... †362
Breadalbane, High-Speed Tunnelling at *8
Constructional Methods, Modern, Effect of, on Tunnel Design—Rabcewicz ... *25
Cross Section of a Power Tunnel, Determining the ... †121
Grande Dixence Tunnel Pierced ... ... †321
Guthega Tunnel, Australia ... *448
Harrsele, Tunnel Blasting at—Ahlström *407
Kilmelfort Tunnelling Methods, Scotland *288
Kitimat, Tunnel Obstruction at ? ... ... §284
Niagara, Sir Adam Beck No. 2—Hearn *248
Shutter, Steel, for Killin Tunnel, Scotland *479
Sweden, Rock Tunnelling in ... †161
Trevallyn Tunnel, Driving the †280
Vinstra Supply Tunnel, Norway *89, 206
World Tunnel Record, Swedes claim ... ... §44
see also Penstocks, Pipes and Pressure Shafts
Turbines—

Aura Turbines, Norway ... *390
Axial Thrust in Double-Discharge Turbines—Haimerl *413
Belgium, Turbine Manufacture in 156
Bersimis Turbines, French Order for ... ... §45, §85
Borehole Drilling, Turbine for *236
Castet Power Units ... ... †40
Cavitation Seminar, ASME ... §85
Efficiency, Turbine, Determining by the Thermodynamic Method ... ... †441
Europe, Heavy Power Equipment in ... ... §364
Flow through Turbines, Calculating—Andersson ... *216, *269
Francis Runner, Large, Welding a *318
Francis Runner, World's Highest-Head 233
India, Damodar Valley, Swedish Turbines for ... ... §45
Kaplan Turbine in Canada ... †442
Kaplan Turbines, High Pressure ... ... †200
Kaplan Turbines, Most Powerful ... ... §364
Kaplans, The Only Three, on the Missouri ... ... †241
Kilmelfort Turbines, Scotland *291
Pelton Wheel, Testing by Radiography ... ... †281
Pelton Wheels, Air-Friction Losses in ... ... †320
Pressure Surges in Turbines and Pumps ... ... †442
Pump-Turbine, World's Largest Reversible *237
Russian Turbines ... ... †362
Russian Turbines, Size of, British Delegation's Comments on *467
Sealing Glands, New Principle in the Design of *115
Stayring, Crane-Mounted Drill Press to Machine *440
Storfinnforsen, Sweden, Turbines at *306
Swift Creek Plants, Turbines for ... ... §406
Test Circuit, Morgan-Smith High-Head *397
Vinstra, High-Head Francis Turbines at, Norway ... *150
Turkey—
Lake Hazar Project ... ... †400
Seyhan Project *30

U

Uganda, *see* Africa
United States of America—
British Transformer Contract for Dalles Dam ... §45
British Transformer Orders for Wilson Dam ... ... §2
Brownlee Dam Model ... §324
California Water Plan ... †401
Cavitation Seminar, ASME §85
Chandler Power and Pumping Plant—Goodman ... *68
Colorado, Upper, Development ... ... §245
Columbia River Developments ... ... †41
Dalles Project Progress ... †441
Feather River Project ... †241
Fish-Handling Facilities at Mayfield Dam ... ... †321
Hells Canyon Projects ... †242
John Day Project ... ... †242
Lewis River Projects ... ... †241
Littleton Project ... ... †281
Missouri, The Only Three Kaplans on the ... ... †241
Niagara Development, New †400
Noxon Rapids Contract ... §245
Oahe Dam, Landslide at ... †482
Oahe Dam, Presoaked Fill for †162
Pacific Northwest 283
Priests Rapids Contracts ... §404
Rio Grande Dam ... ... §164
Roanoke Rapids Development ... ... †321
Santa Felicia Dam, California †82
Snake River Development ... †239
Swift Creek Plants, Turbines for ... ... §406
Wallpack Bend Project ... †281
Washington State Power System ... ... §126
Uruguay, Loan to ... ... §3
U.S.S.R., *see* Russia

V

Val Bregaglia Development ... †239
Val Gallina Dam ... ... †81
Valais Development ... ... †81
Valle di Cadore Dam ... †40
Valves, *see* Gates, Sluices and Valves
Vancouver, Combined Hydro and Thermal Programme for ... §245
Venezuela, Caroni Scheme §2, §85
Viaur-Tarn Development ... †39
Vinstra, Norway ... *86, *150
Volta River Project *366
Vorder Rhein Development ... †484

W

Wadi Tharthar Barrage Inaugurated ... ... §165
Waikato Hydro Project ... §84
Waikato, Problems of the ... 305
Waipapa, Tenders for ... ... §45
Wallingford Hydraulics Research Station *474
Wallpack Bend Project ... †281
Washington State Power System §126
Water Hammer—
Extension of the Theory of Water Hammer—Skalak ... *17
Pressure Surges in Turbines and Pumps ... ... †442
see also Surge Chambers
Water Resources and Development, *see* Resources and Development
Water Supplies, River Control affects ... ... †242
Water Turbines, *see* Turbines
Welded Work in Water-Power Plants ... ... †483
World Power Conference, *see* Conferences

Y

Ybbs-Persenbeug Plant, Austria —Königshofer *207
Yugoslavia to Export Electrical Energy ... ... §444

Editorials

Analysis of Arch Dams ... 83
Europe's Energy Prospects ... 243
Expanding Potentials 363
Hydraulic Research at East Kilbride 323
Hydro-Electric Finance ... 123
Newer Dam-Building Techniques 443
Outlook for Hydro-Power ... 203
Pacific Northwest 283
Silting of Reservoirs 163
Solar Energy and Water Power 1
Transmission Costs 403
Transmission-Line Research ... 43

Book Reviews

Annuaire dè l'Association Suisse des Electriciens & Union des Centrales Suisses d'Electricité 355
Annuaire Hydrologique de la France, 1954 111
Barrages en Voûte Mince—Lombardi 231
Berechnungsgrundlagen für Bauten—Wedler 24
British Civil Engineering Contracting Industry 313
Cavitation in Hydrodynamics (D.S.I.R.) 313
Cedar Bluff Dam (U.S. Bureau of Reclamation) 194
Certificates of Rating with Special Reference to Supplementary Proving Tests of Circuit-Breakers (ASTA) ... 462
Chambres d'equilibre—Gardel 473
City and Guilds Broadsheet ... 232
Construction des Tunnels, Galeries et Souterrains—Bardout and Berny 313
Control of the Economic Loading of a Large Hydro and Thermal Power System—Stage 23
Davis Dam and Power Plant (U.S. Bureau of Reclamation) 23
Electricity Supply Industry in Europe (O.E.E.C.) 194
Empfehlungen des Arbeitsausschusses Ufereinfassungen ... 195
Engineering Fluid Mechanics—Jaeger 312
Engineering News (Lahore) ... 355
F.C.E.C. Handbook 1956-57 ... 473
Flood Estimation and Control—Richards 112
Geology in Engineering—Schultz and Cleaves 112
Grund-und Wasserbau in praktischen Beispielen—Streck ... 355
Hundertjahrfeier der EHT ... 313
I.E.C. Recommendations for Power Transformers 111
Impianti Idroelettrici—Contessini 473
Industrial Research 1956-57 ... 355
International Electrotechnical Vocabulary: Static Convertors 195
Introduction to Fluvial Hydraulics—Leliavsky 111
Kempe's Engineer's Yearbook ... 195
Medicine Creek Dam (U.S. Bureau of Reclamation) ... 24
Six-Inch Water Tunnel at the St. Anthony Falls Hydraulic Laboratory—Straub, Ripken and Olson 354
Swedish State Power Board Publications 355
Technologia betónu s osobitnym zretelom na vodné stavby—Stork 354
Turbinnoe Oborudovanie Gidrostantsii—Shchapov 354
Rechtsquellen des Internationalen Wassernutzungsrechts—Berber 312
Regulungstechnik—Hutarew ... 194
Rural Electrification Reports (United Nations) 24
Waterhammer Analysis—Parmakian 23, 195

Correspondence

Evaporation from a Free Water Surface—Harbeck and Cochrane 326
High-Head Sluice Gates—Staats 206
That Longest Water Tunnel—Semenza 206

Authors and Correspondents

Ahlström, Ragnar *407
Andersson, Sigfrid, *216, *269, *373
Cochrane, H. G., M.E.I.C. *134, *184
Cochrane, N. J., B.Sc., A.M.I.C.E. 192, 326
Cordelle, Francois *46
Duquennois, H. *174
Durand, Max *46
Gibson, W. L. *62, *94
Goodman, D. L. *68
Haase, Ernst *55
Haimerl, Prof., Dipl.-Ing. L.A. *413
Harbeck, G. Earl, Jr. 326
Hearn, Richard L., B.A.Sc., D.Eng. *246
Holden, Dr. Otto *4
Jaeger, Dr. Charles ... 231, 473
Königshofer, Dr. E. *207
Ospina, Carlos S. *100
Pfenninger, A. *356
Rabcewicz, Prof., Dr. Techn. L.v. *25
Rozycki, W., Dipl. Ing., M.A.I.E.E. *127
Sarkaria, G. S., M.S. (C.E.) ... *143
Semenza, Carlo, Dr. Ing. ... 206
Shelson, W. *62, *94
Skalak, R. *17
Staats, B. H. 206
Storey, Walter T., B.A. (Cantab.) *167, *226
Stride, P. J. E., B.Sc.(Eng.), A.M.I.Mech.E. *127
Stucky, A. *339, *377
Thomas, Percy H. *181
Tults, Harald, Dr. Eng., A.M.A.S.C.E. 303
Veijola, Prof. V. *295
Whetstone, George A., Ph.D. *424
Wickert, Gerhard, Dr.-Ing. *221, *259

For the convenience of those who do not bind back copies, the following table shows the numbers of the pages contained in each issue of WATER POWER for 1956:

January	1- 42	July	243-282
February	43- 82	August	283-322
March	83-122	September ...	323-362
April	123-162	October	363-402
May	163-202	November ...	403-442
June	203-242	December	443-484